SUPERBASE 16

KANEOHE BAY

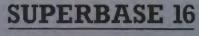
The Marines' Hawaiian Haven



Steve Mansfield

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This book would not have been possible without the full co-operation of the US Marine Corps, and I would like to thank everyone at Kaneohe Bay and Marine Corps Headquarters whose assistance made my job so much easier. A special mention must go to Major Kerry Cershameck and the staff of the JPAO at K-Bay for their hard work, particularly SSSI Christopher Grey who was an adaptable, threadly and efficient link to the various units on the base. And I would also like to acknowledge the help given to me by the Station Operations and Maintenance Squadron, especially Capt Roy Kompler, and the crew of the Flight Clearance office.

I must also thank Nikon UK Ltd. and John Pitchforth in particular, for help with equipment. All the photographs in this book were shot with Nikon cameras and lenses.

In common with many military installations, MCAS Kaneone Bay is a closed base. To enter the base you must have a valid reason for being there and the visit must be arranged in advance.

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C Steve Manaheld 1990

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Front cover A dissected 'Frog' on the Kaneole ramp. The abundance of hatched maintenance panels on the venerable CH-46 aid the groundcrew immensely when servicing this weary workhorse between sorties. This camouflaged CH-46E belongs to HMM-282.

Back cover While the 'groundie' gives the nose gear the final once over, the pilot completes his preflight checks. This particular F/A-18C is the personal mount of VMFA-232's commanting officer, hence the colourful 'Red Devils' motif just lorward of the cocknit.

Title pages Visiting RF-4s faxion to the runway to start the second leg of their journey home to Ei Toro. California. Kaneohe Bay is an important stopping-off point for Marine Corps aircraft crossing the Pacific

Right A CH-46E crew prepares to take-off. The venerable Ses Knight, the Marine Corps' ubiquitous cargo helicopter, is the most common type of bird on the Kancohe Say ramp

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Introduction

On 7 December 1941, Japanese forces struck a blow against the United States which propelled both countries into World War 2. The first bombs fell not on Pearl Harbor, however, but on a small Naval Air Station just over the mountains, in Kaneohe Bay. The aim was to knock out the station's aircraft—mainly PBY Catalinas—before the main attack began on the fleet at Pearl, just minutes later.

The beautiful Mokapu Peninsula, on the southeast side of Oahu, Hawaii, first became home to naval aviators when a small seaplane base was built in 1939. But its history goes back much further. According to Hawaiian legend, life on Earth started when the gods created Man from the sands of one of its beaches. There are ancient burial grounds here, and the Nuupia Ponds, which virtually cut off the peninsula from the rest of the island, are ancient fish farms.

The isolation appealed to the Marine Corps which started occupying the area in 1953 with a Marine-Air Ground Task Force. By 1956, airfield operations at Marine Corps Air Station Kaneohe Bay were in full swing and the task force became the 1st Marine Expeditionary Brigade, a vital part of the Fleet Marine Force. Pacific (FMFPac).

The remoteness is good news for non-military occupants, too. The security of the base provides protection for many species of wildlife. The Marines' care for the land they inhabit has resulted in the Air Station picking up eight conservation and environmental awards. And they also win the gratitude of local and visiting bird watchers who have enjoyed the base's frequent wildlife tours.

However, the main activity on the Peninsula is strictly military. The 1st Marine Expeditionary Brigade is a unique outfit within the Marine Corps in that it has all types of unit, from grunts to zoomies, all gathered in one place. Headquarters units, fighter squadrons, helo squadrons, infantry, amphibious assault units, artillery and recon units all train and operate together.

Aviation is the province of Marine Air Group 24. Fast jet operations are taken care of by three fighter/attack squadrons — VMFA-212, 232 and -235 — who early in 1989 traded in their old F-4 Phantom Ils for brand new F/A-18C Hornets. Helicopters are even more numerous, with one CH-53D Sea Stallion squadron (HMH-463) and four CH-46E Sea Knight squadrons, HMM-165, -262, -265 and -364.

The 1st MEB's main ground combat element is the 3rd Marine Regiment (Reinforced), the largest infantry regiment in the Corps. They're backed up by Brigade Services Support Group 1 (supply, maintenance, transport and medical battalions) and the 1st Radio Battalion.

One of the Brigade's major roles is in support of the Marine Prepositioning Ships programme, where container ships loaded with equipment and ordnance patrol strategically important parts of the world. If trouble flares up somewhere, the Corps simply rendezvous with the ships, picks up its gear and goes into action.

The other main tenant on the base is the Naval Ocean System Center, a research, development, test and evaluation laboratory. MCAS Kaneohe Bay is now home to 15,000 Marines, sailors and their families, who enjoy this idyllic environment of sun, sand, surf and fast jets.

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- 9 'Down in the weeds (and the water)'







Left The F/A-18 Hornet is a versatile machine. It's replacing both the F-4 Phantom I and the A-7 Coracti as a dual role flighter/attack aircraft. That has led to criticisms of it as a 'jack of all trades, master of none'. And its operational radius of aircus of 40 km is said by some to be too short for a carrier-based attack plane. You the Hornet quickly wins friends among pillors for its aprilly and handling. The prototypic, the Northrop YF-17 Cobra, was a competitor for the USAF Air Combas Highter programme, but lost out to the F-16. The Navy liked the look of the sizcraft, and appointed McDonnell Douglas as the main contractor to develop is a the F/A-18. The machines at Kaneoche Bay are all C-models

Below The large leading edge extensions (LEX) running from the wing under the cockpit, give the Horner a hybrid wing, providing increased stability at high angles of attack and botter handling at transonic speeds. They also act as compression wedges, reducing air speed into the engine intakes









Inset The exhaust nozzles of the General Electric F404 engines are fairly small, making the arcraft less conspicuous and helping to keep down its infrared signature

Left Reliability is turning out to be one of the Hornet's strong points, apart from early problems with the engines. Maintenance personnel who used to coax extra life out of the F-4s have comparatively little to do, and many have been reassigned to other jobs. This newly-arrived sixrafl is waiting to get checked out before pointing its companions in VMFA solutions.

Above Maintaining the Hornet could hardly be easier. Want to know where the problem is? Just ask the computer. The Built-In Test Equipment system provides information about faults on the exciptin multi-mode display. Most of the avious are built stround time replaceable units, which can be quickly awapped. Getting inside is easy, too, as the air-raff has 307 access doors, over half with quick release latches, and most accessible from deck level



A Hornet waits in the rain for its turn to refuel in the high-speed pits. K-Bay has four refuelling pits, although it generally uses only two at a time, as most missions are two-ship sorties

The high-speed pits are capable of pumping around 2000 galions of JP-5 into a thirst pit frome in just five nimitals. Turnaround time can be owned in the pit of the









Above left One of VMFA-232's aircraft gets a noce-over from the ground crew before a hop. At the time the pictures were taken, the 'Red Devils' had only half their complement of aircraft, and their states equation, VMFA-235 'Death Apprais' had yet to receive their Foreit.

Below left Col Cary Elisten, MACG-2's commanding officer, climbs aboard his aircraft. As a single seater, the Horner pats a greater work load on the pilot than this is largely allowised by the fly-wire largely allowised by the fly-wire controls and the glass cockput, which prevent the pilot being overwhelmed



Right Col Elsten's wingman for this scartie is It Col George Pullos, VMFA-232's commanding officer, who is waiting for the signal to go before clossing the canopy and taxing out to the holding point. The two-piece canopy gives excellent viability, and is designed so that the front part hingse upwards, giving access to the instruments for maintenance.





Part of the Hornet's againty is due to its small size and weight. The fuselage is mainly aluminium, but graphite/epoxy materials are used extensively, especially on the full, elevators and wings. This is largely a result of McDonnall Douglas' exporience with the Harrier II



 Λ VMFA-212 Hornet rolls back to the ramp after a sortie. It was probably a long mission as the aircraft is carrying a 315 gallon drop tank on the centreline hardpoint



Above A pair of ifornets start their take-off run, as seen from the control tower. Although it's a small runway, tandem take-offs are the norm

Right A Hornet driver lights up the burners of the twin F404-GE-400 engines as he launches on a night hop. This low-bypass turbofan was developed specially for the Northrop P-530 (YF-17) Cobra, the direct predecessor of the Hornet

Inset One of the main improvements made when the YF-17 developed into the F[A-18] was the general beefing up of the undercarriage. The original was fine for Air Force-type operations out of airfields but hopeless for the rigours of carrier life











Khove Lancers 00 and 11 launch prior to performing 'pig in barrel' intercepts. When these pictures were taken, VMFA-212 was running about six sorties a day, each with two or lour sircraft, while the crews built up their experience with the aircraft Inset A Hornet driver from VMFA-212 gets his wheels up as he roars out on a training sortie. Typical training missions include ordnance and fighter weapons, photo reconnaissance, and suppression of enemy air defences

Main picture Still using full afterburner to get his speed up, a "Lancer" biasts out. Reheat is also used to boost the Horner's speed to its maximum Mach 1.8







Above Neatly summarizing the changes that had just been wrought at K-Bay, a Phantom II (actually an RF-4C from VMFP-3 based at El Toro) progrates to leave while a Hornet arrives. Beyond the end of the runway are the waters of the bay, and beyond that mountains. Arriving aircraft approach the strip in a descending true.

Right Without stores on the hard points, the Hornet leaps off the runway in just a Fraction of the space taken by the earlier Phantoms. The noise level is considerably lower, too







Above The Hornet's role as a carried based aircraft is revealed by the folding wingtips, used to conserve space. However, the Hornet is aiready a compact aircraft





A VMFA-232 'Red Devils' bird sucks power from a mobile generator whilst the ground crew performs pre-flight checks. However, the Hornet does carry an auxiliary power generator, which is used to provide juice for the computer and articules systems duting maintenance

The unusual twin, angled tail fins help reduce the Romer's radar signature and eliminate effects of body vortices at high angles of attack. Early production versions of the Bornet suffered stress problems on the tail fins, but the problem was solved with anall strengthening plates.







Above left The once gloriously heraldic markings of fast jets have now been reduced to the monotony of air superiority grey with low-visibility markings, as shown by the tail of this VMFA-232 'Red Devils' Hornet. The yellow-green stripes are formation lights

Above right The bumps at the top of the tail of this VMFA-212 aircraft are: a navigation light, antennae (including a rear-facing radar warning antenna) and, just above the rudder, the square fuel jettison pipe. The small, square reinforcting lugs are also visible near the bottom of the fin

Right K-Bay's Hornets sit outside much of the time, only being stored away in the hangars at weekends, when flying operations are rare

Taset The CAIM-8 pod simulates a Sidewinder missile for combat exercises. The versatite Hornet is capable of hauling 18,000 bon 6 payload which might include the Sidewinder and Sparrow airt-o-air missiles, Maverick and HARM air-to-ground weapons, Rockeye, Walleye and Iron bombs, Harpoon anti-ship missiles and so on. The exact configuration depends on whether it's filling the fighter or attack role, but one standard piece of kit is the Mél Al Yulcan cannon

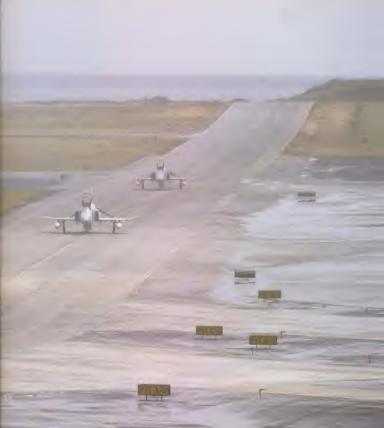




TransPac

Its position in the middle of the Pacific makes K. Bay an ideal stopping of Boptin for Marine Corps sizerath travelling between the Far East and the continental USA. Trans-Pacific (TransPac) flights typically stay a day or two while the crows rost and the sizeraft are refuelled and checked over











Above The Phantom Its are returning home to the US following deployment in the Far East





Above Keeping cool: even shortly after a downpour the temperatures at K-Bay can sear. Most crows keep the canopies popped open until the last minute to avoid broiling in the heat

Left Waiting for the pattern to clear, two RF-4Cs hunker down on the taxiway while the runway is being used by returning F/A-18s. The Phantom Its are starting the second leg of their journey home to El Toro





Prowley crews stretch their legs shortly after landing. These Grumman EA-88s of VMAG-2 'Playboys' are normally based at Cherry Point, North Carolina, which is where they were headed after they'd rested





Essentially a derivative of the A-6 intruder, the Frowler shares only 20 per cent parts commonally with its earlier relative. The EA-6 mission is electronic intelligence and counter-measures. In addition to the pilot, the aircraft carries three Electronics Counter-measures Officers (ECMO) whose job is to desect enemy radarwhich might be directing missiles, and-aircraft fire or fighters—and jam it



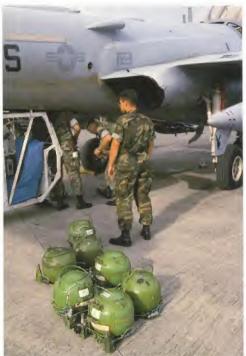
Right The forward avionics bay is just one of the many nooks and crannies that the crew uses to stow its luggage















Right Hunched down on the transit hard stands, this KC-130F has finished its job of alaking the thirsts of the Prowlers. Also from Cherry Point, it provides backup and in-flight rebuelling for the jets

Inset A C-8, one of two operating out of Cherry Point, has also excerted the Prowlers, carrying ground and ancillary personnel





With several Navy bases nearby, naval visitors are quite common. This C-98 Skyttain I from VR-99 has dropped in to pick up a consignment of VPs. This particular C-9, christened CTFY OF GRAND PRAIRE, is regularly seen throughout the Parific









The 'Frog'

The Boeing Vertol CRT-46 See Knight is the standard troop and cargo hauler of the Marino Corps.
Affectionately known as the 'Frog', it was developed to Marine Corps specs mainly to fit the beach assault role, operating off ships. Knoohe Bay's machines are the Echo model which improved on the Delita spec by adding glassifibre rotor blades, crash-attenuating seats and a crash-resistant fuel system.



Above Following a preflight briefing. Ist Lieutenant Don Bolender of HMM-262 walks out to co-pilot his aircraft on a training mission. Typical missions including troop transport, rappelling, SPIE, fire bucket and medevas hops

 $\mbox{\bf Right}\, A$ crew chief gathers his intercom cable before climbing aboard the aircraft

Far right The avionics/radar bay open, the crew chief has a last-minute consultation with the ground crew before the mission







A Sea Enight taxies back to the ramp after landing at a helo pad. Unlike the Sea Stallions, the 'Frog' squadrons operate mainly from the special helo pads, although they may use the runway when the pads are busy, or when they need to go through the Bird Bath







Left A different kind of fire suppression: the Frogr are often called upon to pull out fires, not least when tracer rounds ignite the grass and foliage ever at the rife range. The large fire bucket is dunked in the sea and then, over the target, the water is released through a valve arrangement. The bucket is attached to the aircraft's winch through the centre hatch, known to the crews as the field hole.

Right SPIE-rigging: Special Patrol Insertion/Extraction is a technique for getting combine teams into and out of small, hot's reas where a landing is impossible. A special cable fitted with hoops is lowered from the helo's 'hell hole' and the troops, wearing harnesses, attach themselves to it. They just have to hope that the pilor remembers he has them dangling below him! SPIE-rigging from the water is very sare, and no-one at K-Bay had seen it done before





A 'Frog' in the Brd Bath: the salty see air creates all kinds of corrosion problems for K-Bay's helos. So incoming 'salty birds' are often directed by ground control through the Bird Bath—a set of automatic fresh water sprays. Here is Col Ceiser, CO of KMM-282, has taxied into position and is waiting a couple of minutes for his stup to be hoseed down before proceeding back to the ramp



The clean stretaft taxies back to the ramp. Although the crow chief now has the side door down, it is speed limited and has to be closed for normal flight



The Sea Knight has been serving the Marino Corps since 1986, and it's only constant care that stops it showing its age. Although the Corps wants to replace he with the V-22 Operey throter, at the time these pictures were taken the future of the Osprey was in doubt, and the maintenance crows know they still have to get a lot of the out of their old Sea Knights. The box on the wing stub is a flare and chaff dispenser.



Basking in the Hawailan heat, the crows keep the engine covers, side doors and tear ramps open to prevent the aircraft turning into ovens

Search And Rescue

Search and Rescue is the responsibility of the Station Operations and Maintenance Squadron (SOMS), which also handles general sirfield operations. SOMS has four of the specially-equipped SAR version of the HI-46D Sea Knight





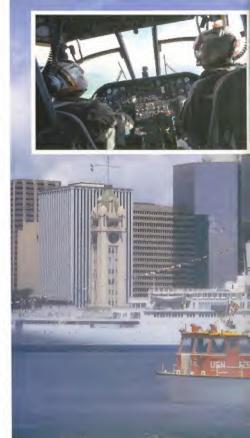
Capt Roy Kompler, our helo driver, waitin patiently for the rest of the crew to turn up, prior to Bying a practice mission where he will rescue swimmers from the bay. One of the parks of the job is that SAR pilots get to fly more house than the average 'Trog' driver two hops a day is typical.





Inset The SAR version of the Sea Knight is fitted with additional avionics and systems including a radar nav set and a hover and approach coupler, which makes it easier to maintain station over the larget area

Right A R-Bay helo flown by Capt Kompier puts on an impressive demonstration of hoisting a litter from a moving boat during Armed Forces Day celebration at Sand Barbor, Honotula. The Sea Knight is ideal for this sort of manoeuvre as the twin-rotors make it leas prone to weatherocoking, so the rescue can be performed in any direction.









Crew chief Sqt Ken Layton calls directions to the pilot as the helo closes on the swimmers. The standard crew on SAR musions to four — pilot, co-pilot, crew chef and rescue swimmer. The swimmers were previously dropped into the vater with the helo at 'ten and ten' ten feet of altitude and a speed of ten knots.

Right The crew's awimmer is the last to come up, having helped the other people get into the harness. Sometimes he will tag along with the last person to be hoisted.

Inset The crew chief steadies the cable. Even with very smooth flying by the pilot, there can be a tendency for the cable to start swinging, which could be dangerous for everyone





Rescued: volunteers from a Navy installation at K-Bay provide bodies for the SAR teams to practice on. It is rumoured that Kaneohe Bay is a breeding ground for hammerhead sharks, but this is a raely pointed out to the volunteers



There is always at loss topo arreral and crew on standby. Rescue missions are co-ordinated with the local Coast Guard and Navy installations, with K-Bay having responsibility for the East coast of Oahu. Many people – both military and civilian – owe their lives to the SAR crews

Special equipment on the HH-46 includes an external boom — mounted hoist capable of litting 600 libs at 300 feet per muiste, a rescue strop and bubble windows for improved visibility. It also carries a rescue basket, floating rescue litter, jungle penetrator, loud halter, two 12-man life rafts, and an SX16 nightsun searchlight





Sea Stallion

Left Kaneohe Bay's CH-S3D Sea Stallions are operated by HMH-463. The Stallion's main mission is cargor escapply, although they will sometimes help out the Sea Knights with troop movements. HMH-463 birds generally stay pretty close to home, but there is the occasional altip deployment and six month rotation to MGAS Susemas, Okinaws, where they operate as Dot-B

Below The Sea Stallion is the Marine Corps' main heavy lift vehicle. Developed by Sikoraky as the S-65, it entered Marine Corps service in 1966. Since then its undergone several upgrades, and the Delta model is now capable of hauling 37 troops or 8000 lbs of payload



Inset far right Capt Aron Gray, test pilot for HMH-463, checks the gauges as the twin General Electric T84-GE-413 engines of the CH-33D wind up to full power. Engine tests are continonplace as the Sea Stallions undergo constant maintenance

Inset The CH-53D's front office gives excellent visibility in all directions including down. Instrumentation is fairly basic

Main picture A Sea Stallion steals home late. Take-offs and landings are generally performed on the active runway, which runs right alongside HMH-463's ramp





Main picture On these two 'kitck' Sea Stallions the absence of tip tanks reveals that they used to be Alpha models, nince reworked - with new engines and gearboxes - to Delta specification. On longer missions they are fitted with internal 318 gallon fuel tanks to increase range and loiter capability

Inset in the flight equipment office, spare bone domes and survival vests wait ready for visiting crowmembers. K-Bay regulars generally have their own kit kept in personal lockers.













The two-tone camouflage is the current fashion and does at least provide some relief from the monotonous drab green. As they go through rework, all Sea Stallions are being repainted in the newer two-tone scheme







Kaneohe Kaleidoscope

Above The ramp: the nearest hanger, No 101 which houses two See Enight squadrons, still bears the scars of the stack in 1841 which proceeded the raid on Pearl Harbor by a few minutes. Further back are the F/A-18 hangars and the last one belongs to the Sea Statilions and is topped by the control tower. Beyond the present runway is the old wartime runway, now home to the Bird Bath and Combat Aircraft Loading Area

Right The Makapur Penumula is effectively isolated from the reat of Oahu. The Numpia Ponds to the right are crossed by only two roads, both protected by gates and sentrices. In the distance the Ulupsu Crater provides a naturally soundproofed areas for the rifle range. During the war it held three 14-inch gaus salvaged from the USS Arizona which was sunk during the raid on Pewri Harbor. However, they were fixed only once before the emplacement cracked and it was decided the mountain couldn't take the strain.



Due to prevailing trade winds. Of it usually the active runway. There is a distanct lack of overrun on what is already the smallest runway for incical attendin the Navy and Martine Corps | usa 1787 by 200 (Beet, It also has water at both ends and is crossed by an active road. All the same, it has been used by aircraft as large as the C-S Galaxy. Four sets of arrestor, gear are available for anybody with a book and bad nerves, but they haven't been used much recently, and not stall since the Phantom Its shupped out.





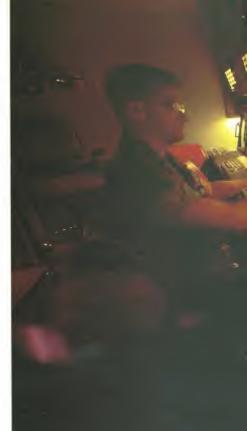
Right The main control tower sits atop hangar 105. In 1846, this replaced the original wartime tower, which was located at the top of a small bill at the centre of the peninsula called Pus Hawaii Loa but botter Enown as Kensa Tower.

Far right Air Traffic Control (ATC) for K Bay is handled from a mobile trailer parked alongside the control tower. Signals are fed to if from radar outpinnent located on Kanaar Tower. This is capable of extending its gaze for 200 rules, but the ATC crows are concerned mainly with traffic in a S-mile radius.





Marine Air Control Squadron 2 provides ATC facilities for MAC-24 when it's in the field. Mobile radiar rooms like this can be loaded onto ships or trucks, into transport alicrafi like the C-130 Horcules, or slung below Sea Stallions, and deployment takes only minutes





Below Part of the crows' conversion to the F/A-18 happens here, on the Operational Flight Trainer (OFT). Three large video monitors provide the visuals highs and dissk only while banks of computers, including many identical to those in the real aircraft, simulate flight conditions. The simulator is used mainly for navigational and instrument training, emergency procedures and general familiarization.

Right The OFT simulator faithfully replicates the Horner's cockpit. The glass cockpit approach keeps buttons and switches to a minimum. The aircraft uses the HOTAS philosophy—"hands on thrortle and stick! meaning that meet aircraft functions can be controlled using switches on the two controls. Although it doesn't move, inflating seat cushions help give an impression of G-forces, and the system hooks up to the public G-suit and safety straps for even more realism.





The Oshkosh P-19A fire trucks of the Crash Fire & Rescue crows stand ready to deal with any emergencies. Fortunately, their services are rarely needed, and the crasws have to be content with frequent exercises to keep themselves sharp

Overleaf The main pump on the Oshkosh is capable of putting out 500 gallons of flame retardant foam every minute









The final cut

The Skyhawk used to be a familiar sight at K-Bay. For 16 years they shared the ramp with the F-4n now they're all gone. The aircraft pictured here were performing their last few sorties before shipping out forever.



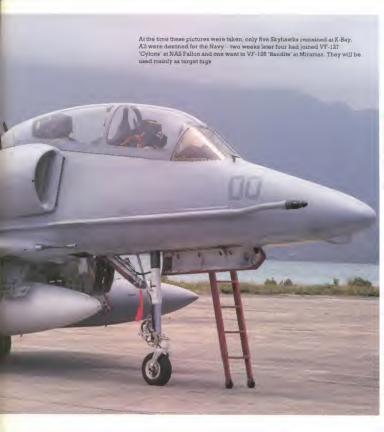




Above and right The Skyhawka belonged to Marine Air Logistics Squadron 24 Bandtin', which is now without aircraft. The "Scooters' were usef for a variety of roles, including training and as "enemy" aircraft in mock combat. Now when K-Bay's Hornest go looking for trouble they mix it up with VC-1 "Blue Alit" A-4s and TA-4s from nearby Naval Air Station Barbers Point.











Left The Skyhawks were in great demand by the fighter squadron crews while they waited for delivery of their Hornets, and by others who wanted to build upstick time on fast jets

Above Unitization of the Skyhawks was prenty heavy, with an average of two, two-ship sorties a day — right up to the day they left



Above Blasting out: with the Prait & Whitney JS2-P-BA delivering 8300 pounds of thrust, and the sircraft lightly laden, the 'Scooter' fairly hops off the runway

Right With the 'Scooters' following the F-4s into K-Bay's past, the base will quieten down somewhat. The OE-404 engines on the Hornets are significantly less noisy than its predecessors' power plants







These Phantom IIa have seen better days. Both ex-VMFA-232 F-4Ss, they six in a patch of waste ground off the side of the runway, used only by Crash Fire & Rescue teams to practice aircraft evacuations and firefighting



K-Bay hung on to its Phantom IIs right to the end. VMFA-212 'Lancers' was one of the last from line squadrons to turn in its F-4Ss for Hornets









The ubiquitous Beech

The UC-128 is a common sight on Martine Corpa sirfields these days. The milliary derivative of the Beech. Super King Air 200, it's used mainly for ferrying VIPs and other general purpose work.





'Down in the weeds (and the water)'

The Kahuku fraining ground, up at the northern tip of Oahu, is a large area of torest and hills used by the Army and Marine Corps for infantry training. These grunts from 18 Platoon, Rio-3-3 (K company, 3rd Battalion, 3rd Marine Regiment), are getting ready to defend a hill against an 'attack' by the 2nd and 3rd blatons.

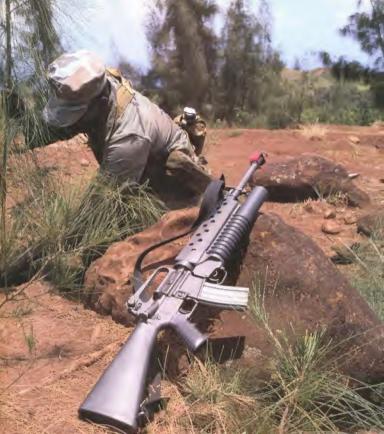




Inset A grunt from the 3rd Battalion sports the M-16 fitted with an M-203 grenade launcher. Infantry units might spend anything from two to ten days in the field, having been dropped there by CH-48s from Kaneche Bar.

Main picture Digging in on Hill S34, a member of 1st Platon puts up camouflage as the unit waits to be attacked. It turned out to be unncoessary—the attacking units chose the wrong hill and were sitting ducks for the 1st Platon. Later that night all units were flown home by K-Bay's helos.







Left During M-80 machine gun qualifications, grunts from Alpha and Bravo Companies, 1st Battalion, 3rd Marine Regiment don first-level MOPP gear. The "Mission Oriented Protective Posture" equipment is protection against chemical warfare

Right The US Marine Corps doesn't have special forces as such, but the Recon outlies come pretty close. Qualified as parachuists, divers and wimmers, they can tackle just about anything. As part of their relentless training. Recon divers prepare to wade into the surf on one of the Mokapu Peninsula's beautiful beaches





Even in diving gear the Marines can't resist wearing green! A Recon diver gets ready to take the plunge The Osprey **SUPERBASE** series takes the enthusiast behind the scenes on the world's major airbases. Here's what's happening on the Kaneohe Bay ramp today...



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